

## Patent Abstracts of Japan

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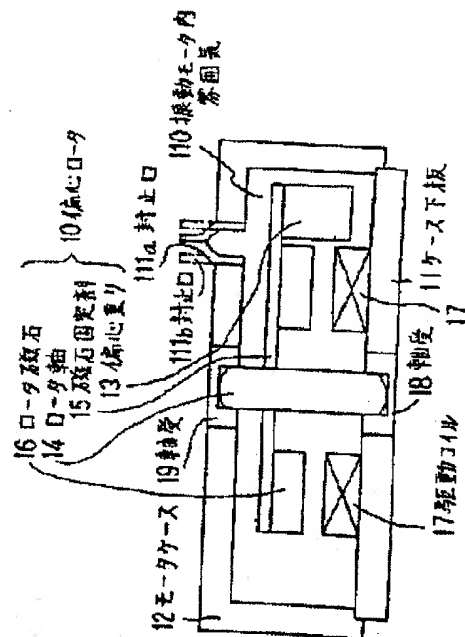
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APPLICANT : SEIKO INSTR INC;

INVENTOR : SATO TAKASHI;

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TITLE : OSCILLATION MOTOR



**ABSTRACT :** PURPOSE: To improve efficiency of an oscillation motor by setting the environmental concentration in a motor lower than that at the outside of the motor thereby decreasing the load resistance to be exerted on an eccentric rotor by the inner environment.

**CONSTITUTION:** A bearing 19 is coupled to the lower board 11 of casing coupled with a bearing 18 and a motor casing 12 having a sealing port 111b is coupled therewith. A driving coil 17 is coupled with the lower board 11 of casing. A rotor magnet 16 and an eccentric weight 13 are coupled with a magnet fixing board 15 which is further coupled with a rotor shaft 14 to constitute an eccentric rotor 10. At first, the sealing port is opened as shown by a double dots and dash line 111b and the environment 110 in an oscillation motor has pressure level same as the atmospheric pressure. When the sealing port is sealed tightly 111a under vacuum state, concentration of the environment 110 in the oscillation motor becomes lower than that at the outside of the oscillation motor. According to this constitution, load resistance to be exerted onto the eccentric rotor 10 by the inner environment can be decreased even if the eccentric rotor 10 is rotated at high speed.

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